

# Spring 2022 EE214 Project Work

## Final Report

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### **1 Introduction**

In this document we present our work done to satisfy the requirements of the Term Project of EE214 laboratory course. According to the project description we are supposed to make a transmitter which produces different frequency tones (pure sinusoids) and collect them together, and a receiver which can be tuned to these frequencies. The received tone will be played with a speaker. So, in order to overcome the challenge of generating sinusoids with needed frequencies the square wave generator circuits are used. In the receiver unit, the bandpass filter with topology called dual-opamp is used as planned in the Preliminary Report. For the speaker unit a simple opamp amplifier is utilized.

### **2 Transmitter Unit**

### **3 Receiver Unit**

### **4 Speaker Unit**

### **5 Conclusion**